

Title (en)

Control unit for suspension using single pressure sensor

Title (de)

Aufhängungssteuereinheit unter Verwendung eines Einzeldrucksensors

Title (fr)

Unité de contrôle pour suspension utilisant un seul capteur de pression

Publication

EP 1970229 A1 20080917 (EN)

Application

EP 08250826 A 20080311

Priority

US 68586407 A 20070314

Abstract (en)

A vehicle suspension includes a plurality of pneumatic suspension elements with each pneumatic suspension element being associated with one pneumatic control valve. A common manifold is fluidly connected to each of the pneumatic control valves. The manifold includes a supply valve that is connected to an air supply, an exhaust valve, and a single pressure sensor. The single pressure sensor is used to measure a pressure level at each of the pneumatic suspension elements. A controller cooperates with the manifold to individually adjust pressure levels of each of the pneumatic suspension elements based on the individually sensed pressure levels. The controller can use the sensed pressure levels to adjust suspension ride height, identify system leaks and isolate defective suspension elements, identify uneven pressure distribution, and to determine a load supported on the pneumatic suspension elements.

IPC 8 full level

B60G 17/052 (2006.01)

CPC (source: EP US)

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